Work Order l December-17-13 9:2	23:56 AM	5-13	*110	348*						Page 1
Revision ID:	535-13 B 1 1 (348	Accept	*N900	040	100)*	Setup Start	171	S1* S2*
Start Date: 12/2 Required Date: 12/2 Reference:	17/13 Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*		Cust Item Customer:	ID:					
	ocess Plan: MLJ	•			ate:		.]	Run Start Stop	^1 <i>V</i> 1	R1*
Sequence ID/ Work Center ID	Operation Description	Date:	SPC (Y/N): Set Up/ Run Hours	Tool ID	ate:	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr									
D3535	Rev B									
*100 *100* Waterjet FLOW CNC Waterjet	FLOW WATER JET Memo 1-Cut as pe Deburr if no	r Dwg D3535 Dwg . ccessary	0.00 0.00 Rev:	3 _2-			_13_			Jm 14-1-10
*110 *110* QC Quality Control	QC2- Inspect parts off n Memo	nachine FAI/FAIB	0.00				_(3			Jm14-1-1
¹²⁰ *1<i>つ</i>∩* QC	QC8- Inspect parts - sec Memo	ond check	0.00 DAS 0.00 27	ln			12			

Quality Control

DQA:			Date:					. '					7	TRAG
			0-4			WORK ORDER NON	-CC	ONFO	RMANCE / UPDATE	147			_	AEROSPACE
QA Closed:		•	Date:							VV	ork Order up	date only		• • •
Work Orde	er:					DISPOSITION			AGAINST	DE	PARTMENT	/PROCESS		
	•				_	Rework	1		Skid-tube Crosstube]	Water Jet [7	Engineering
Part N	lo.					Scrap			Machining Small Fab		Pro	d. Eng. Coor.	1	Quality
	•					Use-as-is	1		noforming Finishing	-	4	re/Packaging	7	Other
NCR I	No.					Suspected Unapproved			Large Fab Composite]	Supplier		
Root					Desci	ription of work order update		nitial	Action		Sign &			
Cause		Date	Step	Qty		or non-conformance	1	ief Eng			Date	Verification		QC Inspector
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Landi		1				General		1		_	٠,	-	_	
		Bending			<u> </u>	Bend		1	Program	<u> </u>	Outside Dim	 	_	ressure/Forced
		Centre No	ot Concer	ntric	<u> </u>	BOM/Route		Grain	, ,	<u> </u>	Over/Under		_	et-up
	-	Cracks		_	ļ	Broken/Damage/Defect	\vdash	Hardwa		_	Part Incorre	<u> </u>		emperature/Cure
	\vdash	Crimp/Ki	nk/Ripple	/Wave	<u> </u>	Burrs	<u>_</u>	1	ion Incomplete/Unqualified	<u> </u>	Part Lost/Mi	ssing	┥.	/eld
	⊢	Cuffs			<u> </u>	Contamination	_	4	tions Incomplete/Unclear	_	Part Moved	L	\^	Vrong Stock Pulled
		Crushing			_	Countersink	-	1 '	gned/off center	<u> </u>	Positioned V		-	
	_	Heat Trea			_	Cut Too Short	<u> </u>	Mislab			Power Loss/	Surge [ther
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	l	Wave/Tw	ist in Tub	oe		Fit/Function		Out of	Sequence					

Work Order	· ID 110348
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110348

Page 2

December-17-13 9:23:56 AM D3535-13 Accept Item ID: *N900040100* Setup Start **Revision ID:** Stop **Item Name:** Stainless Steel Wearplate Fwd **Start Oty:** 6.00 **Start Date:** 12/17/13 **Cust Item ID:** Required Date: 12/17/13 Req'd Qty: 6.00 **Customer:** Reference: Start Run Process Plan: Date: Tooling: Date: Approvals: Stop SPC (Y/N): QC: Date: Date: Reject Reject Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Insp. **Work Center ID Description** Code Qty Qty Number Stamp **Run Hours** 0.00 130 NC BRAKE *130* Brake NC 0.00 Memo DAS DAS Brake NC 1-Form on Brake as per Dwg D3535 using Jigs DT8261and DT83262-Form 30 36 joggle as per Dwg D3535 using Jig DT8158Identify as D3535-13 9-89 9-89 140 QC5- Inspect part completeness to step on W/O 0.00 *140* DAS 27 OC 0.00 Memo Quality Control Grey Sandtex(Ref:4.3.5.6) per OS1005 4.3 0.00 150 12 6 14-+141. *150* Powdercoat Powder Coating

DQA:			Date:		<u></u>				_				•	TRAGE
			5.			WORK ORDER NON-	·CC	NFO	RMANCE / UPDATE	147.	· O · · ·	alata anki. F		AEROSPACE
QA Closed:			Date:				-			VV	ork Order up	date only		
Work Orde	r.					DISPOSITION			AGAINST	DE	PARTMENT	/PROCESS		
WOIR Old	•					Rework			Skid-tube Crosstube]	Water Jet	٦	Engineering
Part N	lo.					Scrap			Machining Small Fab		Pro	d. Eng. Coor.	٦	Quality
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		Cracks			oxdot	Broken/Damage/Defect	L	Hardwa		\vdash	Part Incorre	}-		Temperature/Cure
	<u> </u>	Crimp/Kir	nk/Ripple	/Wave	_	Burrs	<u> </u>	1 '	ion Incomplete/Unqualified	\vdash	Part Lost/M	issing		Weld
	<u> </u>	Cuffs			<u> </u>	Contamination		4	tions Incomplete/Unclear	\vdash	Part Moved	L		Wrong Stock Pulled
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i	<u> </u>	Heat Trea			<u> </u>	Cut Too Short		Mislab			Power Loss/	Surge	_	Other
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		Turning S	-			Finish		4	Calibration					
[l	Wave/Tw	ist in Tub	oe -		Fit/Function		Out of	Sequence					

Work Order ID 110349

vv ork Ord December-17-13				*110	1348*							Page 3	}
Item ID: Revision ID: Item Name:	D3535-13 Stainless Steel	l Wearplate Fwd		Accept	*N9000	140	100)* s	etup	Start Stop	*N.9 *N.9	S1*	
Start Date: Required Date: Reference:	12/17/13 12/17/13	Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*		Cust Item ID: Customer:	:							
Approvals:	Process Pla	nn:	Date:	Tooling: SPC (Y/N):	Date			R	lun	Start Stop		₹1* ₹ 2*	
Sequence ID/ Work Center II 160 *160* QC Quality Control 170 *170* Packaging Packaging	D	Operation Description QC3- Inspect Part Finish Memo Identify as per dwg & Stock Memo	ck Location: [[] -OO2	Set Up/ Run Hours 0.00 Shy 0.00 14 1	Tool ID	Tool#	Plan Code	Accept Qty	Reje		Reject Iumber	Insp. Stamp	ol
180 *1 		QC21- Final Inspection - V	Work Order Release	0.00					4-0	/le 01 - 15	114	11-15	

DQA:			Date:						•						TRAGG
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QA Closed:			Date.						· · ·		VOI	k Order up	date only	_	
Work Orde	er:					DISPOSITION		i		AGAINST D)EP#	ARTMENT/	PROCESS		
	•	0.4			_	Rework			Skid-tube	Crosstube	7		Water Jet		Engineering
Part N	lo.					Scrap			Machining	Small Fab	1	Proc	d. Eng. Coor.	┪	Quality
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NCR N	10.					Suspected Unapproved			Large Fab	Composite			Supplier		
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Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption		Date	Verification	_	QC Inspector
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		Cracks				Broken/Damage/Defect		Hardwa	are	1	_	art Incorrec			Temperature/Cure
	<u> </u>	Crimp/Kir	nk/Ripple	/Wave		Burrs		Inspect	tion Incomplete/Un	qualified	_	art Lost/Mi	ssing		Weld
	L	Cuffs				Contamination		4	tions Incomplete/U	nclear	_	art Moved	L		Wrong Stock Pulled
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		Marks/Ch	natter			Drill Holes		Off-set			_		***		
		Turning S	equence			Finish		Out of	Calibration		_				
		Wave/Tw	ist in Tub	oe		Fit/Function		Out of	Sequence						

Page 1

Work Order ID:

110348

Parent Item:

D3535-13

Parent Item Name:

Stainless Steel Wearplate Fwd

Start Date: 12/17/13

Required Date: 12/17/13

Start Qty: 6.00

Required Qty: 6.00

Comments:

IPP Rev:A New Issue 07-02-15 JLM

IPP Rev:B As per Rev B 07-08-31 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S20GA		Purchased	No			100	sf	436.3000	0.8505	5.3715792	•		
304/316 .040 Sheet										10			m14-1-1
				Location		Loc Qty	<u>Lo</u>	c Code					
				MAT020		436.30001							
				m125	754	24.17001			. 				
				m126	852	111.13							
				m127	454	301			تها	<u> </u>			

DQA:		····	Date:										TRAG
QA Closed:			Date:			WORK ORDER NON-	-CC	ONFO	RMANCE / UP		Vork Order u	pdate only	AEROSPACE
Work Orde	\r·					DISPOSITION				AGAINST D	EPARTMENT	/PROCESS	
WOIK Orde	-				_	Rework			Skid-tube	Crosstube	\neg	Water Jet	Engineering
Part N	lo.					Scrap			Machining	Small Fab	Pro	od. Eng. Coor.	Quality
	•				_	Use-as-is			noforming	Finishing		re/Packaging	Other
NCR N	10.			<u>.</u> .	_	Suspected Unapproved			Large Fab	Composite		Supplier	
Root					Desci	ription of work order update	ı	nitial	Acti	on	Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector
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		Centre No	ot Concer	ntric		BOM/Route	<u></u>	Grain		_	Over/Under	 -	Set-up
		Cracks				Broken/Damage/Defect		Hardwa		-	Part Incorre	⊢	Temperature/Cure
	_	Crimp/Kir	nk/Ripple	/Wave		Burrs		1	ion Incomplete/Un	· -	Part Lost/M	 -	Weld
	-	Cuffs			<u> </u>	Contamination	_	4	tions Incomplete/U	nclear	Part Moved	_	Wrong Stock Pulled
	-	Crushing			igspace	Countersink		1 '	gned/off center	L	Positioned		
	\vdash	Heat Trea				Cut Too Short		Mislab			Power Loss,	/Surge	Other
	-	Inspection	•	Tube	<u> </u>	Drawing		Misrea					
		Marks/Ch	atter			Drill Holes	\perp	Off-set					
		Turning S	equence			Finish		Out of	Calibration				
		Wave/Tw	ist in Tub	ре		Fit/Function		Out of	Sequence				

DART AEROSPACE LTD	Work Order:	110348
Description: Wearshoe	Part Number:	D3535-13
Inspection Dwg: D3535 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

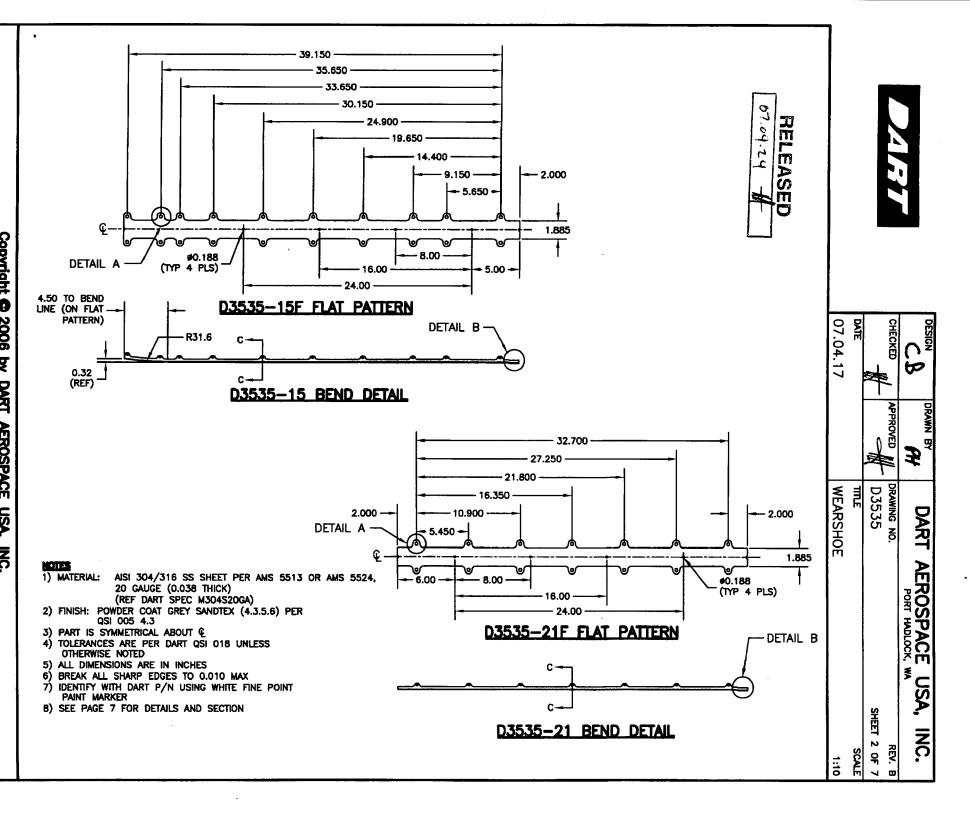
X First Article Prototype

						
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
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5.650	+/-0.010	5.650			V	
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Measured by: Jm Audited by: 27 Prototype Approval: N/A

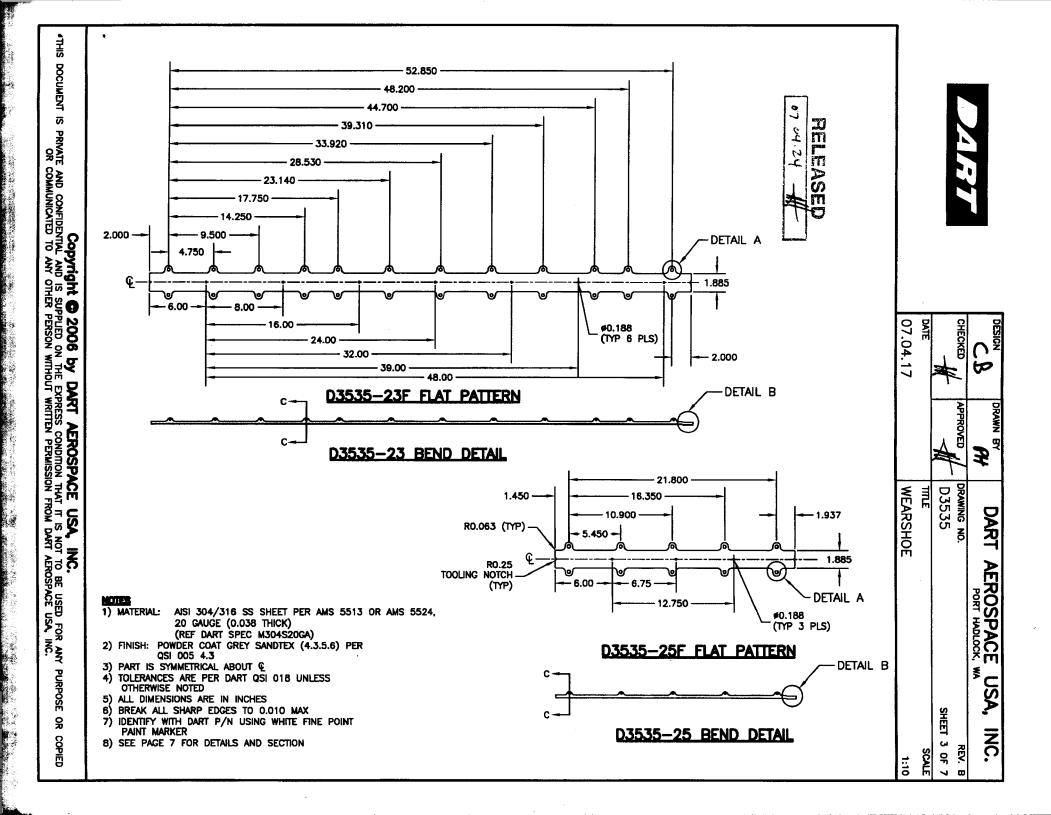
Date: 14-1-10 Date: 14/1// Date: N/A

Rev	Date	Change	Revised by	Approved
Α	08.04.15	New Issue	KJ/DD 🛠	X
		W. W	0	· ·



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DART

AEROSPACE PORT HADLOCK.

USA,

RC.

DRAWING NO. D3535

SHET

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SCALE

07.04.17

WEARSHOE



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D3535-31 BEND DETAIL

D3535-31F FLAT PATTERN

22.500 19.000

> DETAIL A #0.188 (TYP 3 PLS)

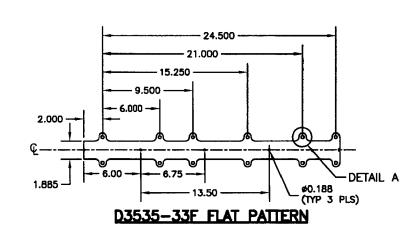
14.250

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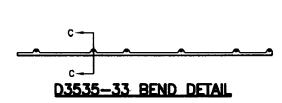
NO	TER
	MATERIAL:

AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524,

20 GAUGE (0.038 THICK) (REF DART SPEC M304S20GA)

2) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER QSI 005 4.3

- 3) PART IS SYMMETRICAL ABOUT ©
 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) BREAK ALL SHARP EDGES TO 0.010 MAX 7) IDENTIFY WITH DART P/N USING WHITE FINE POINT PAINT MARKER
- 8) SEE PAGE 7 FOR DETAILS AND SECTION



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5 OF 7 REV.

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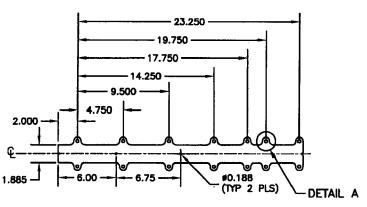
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07.04.17

WEARSHOE



D3535-35F FLAT PATTERN



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D3535-37F FLAT PATTERN (TYP 4 PLS)

D3535-37 BEND DETAIL

AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524,

- 20 GAUGE (0.038 THICK)
 (REF DART SPEC M304S20GA)
 2) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER
 QSI 005 4.3
 3) PART IS SANDTEX
- 3) PART IS SYMMETRICAL ABOUT ©
 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



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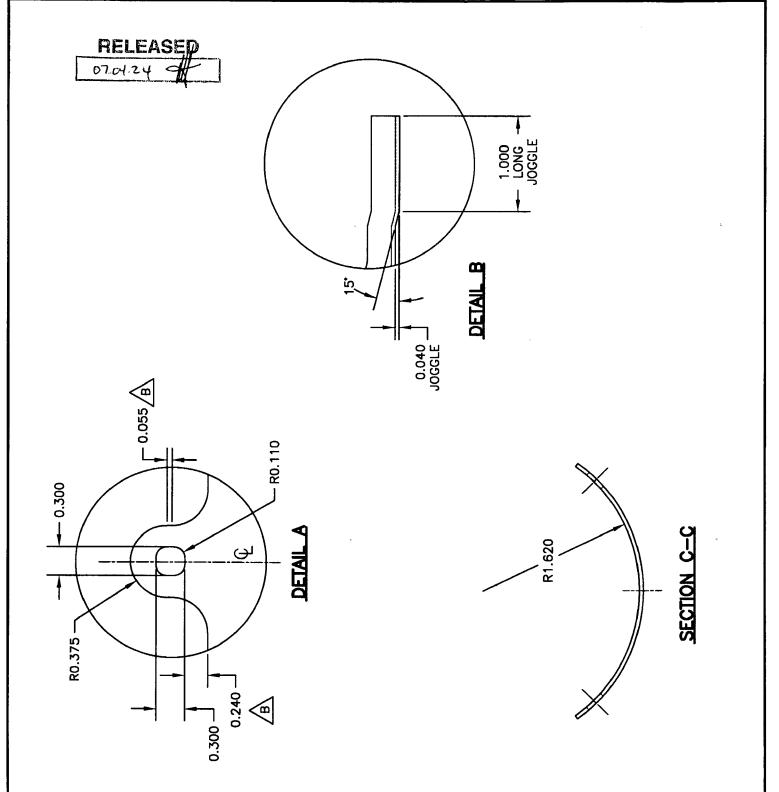
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1) MATERIAL:

5) ALL DIMENSIONS ARE IN INCHES
6) BREAK ALL SHARP EDGES TO 0.010 MAX
7) IDENTIFY WITH DART P/N USING WHITE FINE POINT PAINT MARKER 8) SEE PAGE 7 FOR DETAILS AND SECTION



DESIGN	DRAWN BY	DART	AEROSPACE USA, INC.
CHECKED	APPROVED/	DRAWING NO.	REV. B
		D3535	SHEET 7 OF 7
DATE	•	TITLE	SCALE
07.04.17		WEARSHOE	1:1



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